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Wear-resistant bellows vacuum cups for abrasive products

Innovative two-layer construction for optimal sealing and long cycle life

Stable body, flexible sealing lip: with vacuum cups made from the material Varioflex®, FIPA GmbH (www.fipa.com) offers an innovative solution for automating and handling abrasive products with rough surfaces. “The robust Varioflex® vacuum cups are aimed at a wide range of automation applications in which high resistance to mechanical abrasion, oil, ozone and weathering is required”, says Rainer Mehrer, CEO of FIPA.

The bellows vacuum cups with 1.5 and 2.5 folds made from the composite material Varioflex® are manufactured using a special wear-resistant polyurethane that is extremely low-marking. The construction of the Varioflex® vacuum cups combines a strong body (black) with a soft, flexible sealing lip (red). Automation applications with fast cycle times, in particular, become more reliable thanks to the high stability of the body with its excellent ability to reset itself. In applications with angle and height adjustment, the high degree of hardness of the body of 60° Shore reduces the risk of bending perceptibly. An optimal seal with uneven and rough product surfaces, such as cardboard, is ensured by the soft sealing lip with a hardness of 30° Shore. The special polyurethane blend provides good protection against premature wear of the sealing lip by abrasive products. Thanks to an improved polymer, the Varioflex® bellows vacuum cups are resistant to oil and ozone and are also able to withstand the effects of the weather over a long period.

FIPA Varioflex® vacuum cups at a glance:

- **Long service life:** the vacuum cups, made from special polyurethane, are extremely robust
- **Fast cycle times:** the strong body with 60° Shore scores well with its excellent ability to reset itself and strong resistance to lateral bending
- **Extremely wear-resistant with good sealing:** the soft sealing lip (30° Shore) offers maximum flexibility when handling abrasive products, such as cardboard

FIPA Press Release

- **Resistant to oil and weathering:** an optimized polymer blend greatly improves elasticity on exposure to UV
- **Extremely low-marking:** ideal for products that still have to be painted or the surfaces of which are being processed

MEDIA CONTACT:

Jennifer Heidbrede
*Manager International
Marketing Communication*

FIPA GmbH

Freisinger Straße 30
85737 Ismaning / Germany
Tel.: +49 89 962489-0
Mobile: +49 170-7169791
jheidbrede@fipa.com
<http://www.fipa.com>

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FIPA specializes in vacuum, gripper, and lifting technology. The international company develops and sells high-quality products and innovative system solutions for the material flow sector. FIPA GmbH was founded in 1985, and employs around 70 members of staff at its headquarters in Ismaning, near Munich. FIPA also has an international presence, with its own subsidiaries in the USA and Thailand, and representative offices in Hungary and China. For further information on FIPA, see <http://www.fipa.com>.

FIPA GmbH

Freisinger Straße 30 · 85737 Ismaning / Germany
Phone: +49 89 962489-0 · Fax: + 49 89 962489-11
info@fipa.com · www.fipa.com

